Attachment #1
AF Contracting Recommended
Hardware/Software Replacement
Configuration

The following configuration is established for Contracting units AF-wide. This configuration was coordinated with AF/SC Staff and serves as a valid CSRD upon coordination of quantities and local site requirements with the local servicing AF/SC Component.

DESKTOP CLIENT - ZENITH DATA SYSTEM:

Contract: DT V CLIN 0002 Desktop OA System (Table B-2) ZDS

SLIN: 1002AA Desktop OA System w/OA S/W (Pentium 133MHz, 256KB Cache, 1.2GB EIDE Hard Drive, 16MB RAM)	$1,801
WITH THE FOLLOWING UPGRADES AND PERIPHERALS:	
SLIN: 1002AD - Pentium 166 MHz - FIC	$289
SLIN: 1002AH - FME-100-UG8MB Memory Upgrade - FIC, (Total 24 MB RAM)	$199
SLIN: 1002AL - 1.6GB, 1.0", EIDE, 3.5" Hard Disk Drive (Total 2.8 GB) - UIC	$259
SLIN: 1002AM - Video Memory, Additional 1MB, (Total 2 MB) - FIC	$55
SLIN: 1002AW - CD-ROM Drive, Internal, IDE, 6X	$95
SLIN: 1002AZ - Multimedia Package	$158
SLIN: 1002AR - ZCM-1736-D1 17" Color Monitor	$299

DESKTOP CLIENT - HUGHES DATA SYSTEMS:

Contract: DT V CLIN 0002 Desktop OA System, (Table B-2), HDS

SLIN: 1002AA Desktop OA System w/OA S/W (Pentium 100MHz, 256KB cache, 850MB EIDE Hard Drive, 12MB RAM)	$1,880
WITH THE FOLLOWING UPGRADES AND PERIPHERALS:	
SLIN: 1002AD - Pentium 133 MHz - FIC	$91
SLIN: 1002AH - Memory, 2MB/Module, $57 X 6 Modules, (Total 24 MB RAM)	$342
SLIN: 1002AK - 1.1 GB IDE, Hard Disk Drive - FIC	$30
SLIN: 1002AL - 1.1GB IDE, Hard Disk Drive (Total 2.2 GB) - UIC	$133
SLIN: 1002AM - Memory Video, Additional 1MB DRAM, (Total 2 MB) - FIC	$18
SLIN: 1002AW - CD Drive, Quad Speed IDE Drive	$64
SLIN: 1002AZ - Multimedia Package	$79
SLIN: 1002AR - D0002AR Monitor, CTX 17"	$226

Attachment #1 (Cont.)
AF Contracting Recommended
Hardware/Software Replacement
Configuration

NETWORK INTERFACE CARDS - ULANA II:

Contract: ULANA II CLIN 0196 FDDI Interface
(Codenoll, FDDI NIC, CN9543) NSP
SLIN: 0196AB CONUS 5 YR warranty $1,876

NOTE: FIC - Factory installed component
UIC - User installed component

WORLD-WIDE-WEB BROWSER:

Microsoft Internet Explorer NSP
Netscape Navigator 3.0
see URL: http://www.hanscom.af.mil/Orgs/Spo/AVC/Cstore/ (Country Store)

LAPTOP - ZENITH DATA SYSTEM:

Contract: DT V CLIN 0001 Portable System (Table B-1) ZDS

SLIN: 1001AA Portable Notebook Computer
(Pentium 120MHz, 518MB EIDE Hard Drive, 16MB RAM) $2,193

<u>WITH THE FOLLOWING UPGRADES, ACCESSORIES AND PERIPHERALS</u>:
SLIN: 1001AE 777MB EIDE 2.5" Hard Disk $129
SLIN: 1001AF Video Interface for Dock FIC $125
SLIN: 1001AH TFT Screen upgrade $399
SLIN: 1001AJ Hard Carrying Case $35
SLIN: 1001BD Fax/Modem PCMCIA, 14.4K $102

LAPTOP DOCKING STATION:

Contract DT V Zenith Data Systems

SLIN: 1002AS 17" Color Monitor (Table B-2) $651
SLIN: 1001AQ 101 Keyboard $10
SLIN: 1001AR Mouse $6
SLIN: 1001AS Docking Station w/Network Interface $401
SLIN: 1001AT Docking Station (1034MB EIDE Hard Drive) $152
SLIN: 1001AU 6X IDE CD-ROM Drive $95

Attachment #1 (Cont.)
AF Contracting Recommended
Hardware/Software Replacement
Configuration

SLIN: 1001AX Multimedia Package NSP

LAPTOP WORLD-WIDE-WEB BROWSER:

Microsoft Internet Explorer NSP
Netscape Navigator 3.0
see URL: http://www.hanscom.af.mil/Orgs/Spo/AVC/Cstore/ (Country Store)

TRAINING SOURCES:

Check GSA Schedules, as well as local universities for training materials and on-site training on the office automation software in this configuration. See URL: http://www.microsoft.com as one potential source for training materials.

SERVER - Zenith Data Systems:

Contract: Desktop V CLIN 1004 Server (Table B-4) ZDS

SLIN: 1004AA Z-Server MX 133 $3799
(Pentium 133MHz, 2.1 GB hard drive, 48MB RAM)

WITH THE FOLLOWING UPGRADES AND PERIPHERALS:

SLIN: 1004AB Additional Pentium 133 MHz Processor Module - FIC	$899
SLIN: 1004AH Upgrade to Hard Drive 4.1 GB, SCSI-2 - FIC	$450
SLIN: 1004AP 7-Bay Tower w/Power Supply, SCSI Host Adapter	$320
SLIN: 1004AR CD Jukebox (Includes 4 X 6 Disk changers), X4 Speed, SCSI	$1670
SLIN: 1004AV Backup Device, 4 GB Tape Drive, SCSI	$563
SLIN: 1004AW 28.8/14.4 DataFax/Modem, Ext 2 Winport, 8 Port Int.	$1,575
SLIN: 1004AX Fax/Modem Module, 28.8K - need 1 per Branch/Flight	$190
SLIN: 1004BB UPS 650 VA w/auto Shutdown S/W	$319
SLIN: 1004BC PCMCIA Device Reader/Driver	$65
SLIN: 1004BD 15” Color Monitor	$352
SLIN: 1004BG Windows NT Server 3.51 Resource Sharing S/W	$575
SLIN: 1004BL Exchange Server 1.1 License and Media w/doc	$593
SLIN: 1004BN Network Administration S/W $25	
SLIN: 1004BP Metering SW License (Included with 1004BN)	NSP
SLIN: 1004BS Windows NT Server 3.5X Client Access License, and Media w/doc	$50
SLIN: 1004DZ 50 Users NOS for 50 per Node + Server S/W, NT Advanced Server 3.51 License, and Media w/doc Attachment #1	$1,828

Attachment #1 (Cont.)
AF Contracting Recommended
Hardware/Software Replacement
Configuration

ITEMS BELOW ARE PROVIDED FOR EXAMPLE/ROM BUDGET PLANNING ONLY

PLEASE NOTE: Although provided for ROM Budgeting it is imperative to coordinate with local servicing SC unit to better determine individual site needs and budget requirements.

MANDATORY CONFIGURATION REQUIREMENTS:

1. **The Contracting Unit must have either its own Router or sufficient priority on a Shared resource to ensure sufficient available bandwidth for the conduct of EC/EDI, video conferencing and full Internet access.**

2. **When installing new networks, and when the existing base or building network permits it, the Contracting Local Area Network (LAN) shall have Fiber-Optic Backbone and "to-the-desktop" cabling installed.**

3. **The Contracting Unit will standardize on Microsoft "NT" Servers (to include MS Back Office, Exchange, and MS Mail) and Clients on DT V Contract as they replace and upgrade.**

ROUTER - ULANA II:

Contract: ULANA II CLIN 0552 Modular Multiprotocol Router

SLIN: 0552AB CONUS 5YR warranty	$7,249
SLIN: 05556AB CONUS 5YR warranty FDDI Module	$5,373

HUB - ULANA II:

Contract: ULANA II CLIN 0300 Multimode FDDI DAS/SAS Module
Medium Expandable Hub Chassis

SLIN: 0300AB CONUS - 5YR warranty	$3,562

BRIDGE - ULANA II:

Contract: ULANA II CLIN 0367 Local Bridge Module for Expandable Hub Chassis

SLIN: 0367AB CONUS 5 YR Warranty	$3,121

Attachment #1 (Cont.)
AF Contracting Recommended
Hardware/Software Replacement
Configuration

FIBER-OPTIC CABLING - ULANA II:

Contract: ULANA II CLIN 0490 12 Strand Fiber Optic Cable

SLIN: 0490BB CONUS - 5 YR Warranty	priced per meter	$7.86

LAN ENGINEERING AND INSTALLATION - ULANA II:

Contract: See ULANA II for site survey and LAN installation if local organic site support is not available

ATTACHMENT 2
DoD MINIMUM DESKTOP CONFIGURATION DESCRIPTION
(http://www.itsi.disa.mil/jr8300/mdcd.html)

Based on table 1 (summary of the requirements identified in section 2.1) and assumptions to meet future hardware requirements, the following minimum desktop configuration is derived:

Central Processing Unit with the following criteria:
- at least 66 MHz clock speed
- at least 32-bit data path
- at least 8K of internal cache
- less than or equal to 5 volts
- Integer SPECmark rating of greater than or equal to 36
- Floating point SPECmark rating of greater than or equal to 16

16M of RAM (expandable to at least 32M)

Internally installed, uncompressed 1 GB hard drive with an access time less than 18 milliseconds

A 3.5" floppy drive capable of reading and writing both 1.44MB and 720KB diskettes

A video controller capable of a minimum of 256 colors, 1024x768 pixels, non- interlaced resolution

A minimum 17", non-interlaced, color monitor with standard 15 pin analog input capable of a minimum of 1024x768 pixel resolution in non-interlaced mode

"Qwerty" style keyboard with a minimum of 101 separate fully functional keys and at least 10 function keys

A pointing device with a minimum of two buttons

Network interface

2-parallel ports

2-serial ports

16-bit sound card (for multimedia applications)

3 expansion slots

2-PCMCIA type II, or better, slots

Double speed CD-ROM Drive (ISO 9660 compliant)

ATTACHMENT 2 (Cont.)
DoD MINIMUM DESKTOP CONFIGURATION DESCRIPTION (Cont.)
(http://www.itsi.disa.mil/jr8300/mdcd.html)

System, networking, and application software must comply with the applicable standards identified in the TAFIM and appendix F of the DOD Personal Computer Policy Implementation Plan

In compliance with Executive Order 12845, the above minimum desktop configuration must meet Environmental Protection Agency Energy Star requirements.

As technology evolves, the minimum desktop configuration will be updated to reflect the latest technology in a cost effective manner.

ATTACHMENT 3
RATIONALE FOR TECHNICAL CONFIGURATION

The recommended configuration establishes the necessary technical infrastructure to ensure the AF contracting work force is equipped to operate in the emerging DII and BII COE. Rationale is provided for the following elements outlined below to briefly highlight the future requirements necessitating their inclusion in this configuration.

DESKTOP CLIENT:

The selection of the upgraded desktop DT V SLIN is based upon the current and anticipated needs of the contracting work force. The Standard Procurement System (SPS) topology requirement is a client/server infrastructure with the minimum desktop configuration meeting the capabilities of the Minimum DoD Desktop Configuration. The February 1996 "IT" Survey of the AF contracting work force revealed that desktop replacements increments were greater than 3 years with a large percentage of the desktops failing to meet the DoD Minimum Desktop Configuration. Due to the historical inability of the contracting units to replace their desktops at a rate sufficient even to maintain the DoD minimums, the selection of the upgraded DT V desktop SLIN will help ensure a longer potential useful life cycle by procuring the one of the most capable desktops on the schedule. This rationale also extends to the remainder of the proposed configuration and is the genesis for the encouraging inclusion of all future technology refreshments to the approved configuration.

Projected future process changes also provide additional rationale for the selection of the desktop client. The recent emergence of telephony standards and the current multimedia capabilities of these clients will inevitably lead to the inclusion of the telephone and fax on the desktop client, just as it is commonly available on all multimedia PC's being sold today. Current contracting processes such as the business clearance process and other numerous other contract reviews and coordination with geographically separated organizations require a robust and capable client able to handle desktop video conferencing and white-boarding. The recent DoD initiative to use Integrated Process Teams creates additional emphasis on collaborative efforts with geographically separated organizations. Finally, the AF Contracting "IT" Strategy calls for 100% Internet (w/WWW capability) access for the work force. The rapid emergence of multimedia on the latest generation of browsers will increase the demands on the desktop clients.

ATTACHMENT 3 (cont.)
RATIONALE FOR TECHNICAL CONFIGURATION

SERVER:

The selection of DT V top-end server was based upon the anticipated needs of SPS as well as the trends identified for the upgraded Desktop Client. Intel's recent production of multiprocessor motherboards will undoubtedly be offered in DT V earliest technology refreshments for the servers and, because of their automatic incorporation into this configuration, will offer potential savings by diminishing the need for purchasing additional individual servers.

FIBER-OPTIC CABLING:

Telephony, multimedia, video conferencing and Internet usage, as well as a potential increase in computer based training, all will require significant increase in available bandwidth on the LAN. Although great technological breakthroughs are being made in copper (twisted pair and coaxial) line transmission and in cable modem, these will only temporarily fix the growing bandwidth problem. Fiber Optics, however, is an approved standard technology that can handle all data transmission rates requirement in the short and long term.